

Figure 2

Alignment of the CAH gene from Myrothecium verrucaria with a new cyanamide tolerance gene isolated from Aspergillus (CAH-H1) and a non-functional yeast CAH homolog (CAH-H2)

CAH CAH-H1 CAH-H2	MSSSEVKANGWTAVPVSAKAIVDSLGKLGDVSSYSVEDIAFPAADKLVAEAQAFVKARLS 60 MCQNEVEVNGWTSMPADAGAIFDGGPFINVPEALSIEEIKFPVDDPIVEKTMRYAKAALP 60MSQYGFVRVPREVEKAIPVVNAPRPRAVVPPPNSETARLVREYAAKELT 49 : *: :*
CAH CAH-H1 CAH-H2	PETYNHSMRVFYWGTVIARRLLPEQAKDLSPSTWALTCLLHD 102 TETFNHSMRVYYYGMQDCASHGVLINRSQALGMAITKQQFPKQASALSPSTWALTCLLHD 120 APVLNHSLRVFQYSVAIIRDQFPAWDLDQEVLYVTCLLHD 89 ***:**: : : * * * :******
CAH CAH-H1 CAH-H2	VGTAEAYFTSTRMSFDIYGGIKAMEVLK-VLGSSTDQAEAVAEAIIRHEDVGVDGNITFL 161 IGTSDHNLAATRMSFDIYGGIKALEVLK-GFGATSDQAEAVAEAIIRHQDLGVHGTITYI 179 IATTDKNMRATKMSFEYYGGILSRELVFNATGGNQDYADAVTEAIIRHQDLTGTGYITTL 149 :.*:: ::*:***: **** : *:: * * *:**:******: * * * *
CAH-H1 CAH-H2	GQLIQLATLYDNVGAYDGIDDFGSWVDDTTRNSINTAFPRHGWCSWFACTVRKEESNKPW 221 GQLIQLATIYDNVGAHPYVKDFGELIHDTTRSQVHEAHPPGEWRTFFSGVIQKEQAIKPW 239 GLILQIATTLDNVGSNTDLIHIDTVSAINEQFPRLHWLSCFATVVDTENSRKPW 203 *::*:** ****:
CAH CAH-H1 CAH-H2	CHTTHIPQ-FDKQMEANTLMKPWE 244 CHTKKMVN-VLRKGSRHPDGQ 259 GHTSSLGDDFSKKVICNTFGYN 225 **.::::::::

Figure 3

Alignment between a new ubiquitin-like promoter (UbiN) and the corresponding part of the sugarcane Ubiquitin-4 promoter.

Ubi4 UbiN	AAGCAAACGGTATAGCAACGGTGTTAACCTGATCTAGTGATCTCTTGCAATCCTTAACGG 60 AAGCAAAGGGTATGGCAACTGTGTCACCGCCCTTCGCTGCGTGTTAACGG 50 ****** **** ***** ***** * * * * * * *
Ubi4	CCACCTACCGCAGGTAGCAAACGGCGTCCCCCTCCTCGATATCTCCGCGGCGACCTCTGG 120
UbiN	CCACCAACCGCAGGTAGCAAACGGCGTGCACCTTCCCGAGATCTCCACAGCGAGGTCTGG 110
Ubi4	CTTTTTCCGCGGAATTGCGCGGTGGGGACGGATTCCACAACCGCGACGCAA-CCGCCTCT 179
UbiN	CTTTTTCCGCCTTCCCG-GAAACCGCGGTGGTTTCAGCGTGGCGGATTCCCCCTCC 165
Ubi4	CGCCGCTGGGCCCCACACCGCTCGGTGCCGTAGCCTCACGGGACTCTTTCTCCCTCC
UbiN	CACCACCCAACCGC-CATAAATACCAGCCCCCACCTCACTCTCTTTGCATATCCATC 221 * ** * * * * * * * * * * * * * * * * *
Ubi4	CCCGTTATAAATTGGCTTCATCCCCTCCTTGCCTC 274
UbiN	CAAATCCCAGTCCCCAATC 240 * * * * * * * *

Figure 4. GUS-expression in Agrobacteroum-infected alfalfa seedlings "- vortex": subjection by immersing (30 minutes) seedlings into an Agrobacterium suspension; "+ vortex" subjection by vortexing (30 minutes) seedlings immersed in an Agrobacterium suspension.

